

YEAR PLAN 2018 – 2019
GRADE IX COMPUTER APPLICATIONS

The academic year is divided into **two** sessions

Session One: June 2018 to October 2018

Session Two: November 2018 to March 2019

Continuous Assessments: July, August, September, December, January, February

Summative Assessment I: October 2018

Summative Assessment II: March 2019

Please check the **index page** in the notebook for Continuous Assessment marks.

Aim: To learn the fundamental concepts of computer programming using Java

Enduring Understanding: Technology is used to simplify day to day processes; computers can be effectively used for problem solving.

Objective: Learn the rudiments of programming using the Java language to develop the most effective and logical solution to the problem

Projects/Field trips: Project on different type of numbers with variable description and output to be printed and submitted in a spiral bound file.

Session One – JUNE 2018 TO OCTOBER 2018

Duration	Topics	Specific Learning Objectives	Activities	Resources
June	Recap Chapter 3 - Introducing Java on the BlueJ Environment Chapter 4 - Class as Basis of all computation	Refresh Java programs done in Grade VIII on selection construct A quick recap, BlueJ IDE, handling projects and classes in BlueJ Learn about Java tokens, keywords, data types, identifiers, literals and operators	<ul style="list-style-type: none"> • Output problems • Debugging code snippets • Worksheet on sequence and selection construct • Text book exercises • Exercises from the reference books • Practicals 	<ul style="list-style-type: none"> • Computer Applications - Grade X by Pandey and Dey • Computer Applications - Grade X by Dheeraj Malhotra • Assignments and sample papers from the net • Website: http://www.icseguess.com, guideforschool.com
July	Chapter 4 - Class as Basis of all computation. (continued) Chapter 9 - Decision making statements	Understand operator associativity, valid expressions, data type conversion (explicit and implicit) Learn shift and bitwise operators and Math functions. Learn to obtain input from user and provide output, type of program errors, IO exception and packages in Java Understand programming construct, selection statements, if else statement.	<ul style="list-style-type: none"> • Output problems • Debugging code snippets • Worksheet on sequence and selection construct • Text book exercises • Exercises from the reference books • Practicals 	<ul style="list-style-type: none"> • Computer Applications - Grade X by Pandey and Dey • Computer Applications - Grade X by Dheeraj Malhotra • Assignments and sample papers from the net • Website: http://www.icseguess.com, guideforschool.com
August	Chapter 9 - Decision making statements. (continued)	Learn nested ifs, conditional operator and switch statement.	<ul style="list-style-type: none"> • Output problems • Debugging code snippets • Worksheet on sequence and selection construct • Text book exercises • Exercises from the reference books • Practicals 	<ul style="list-style-type: none"> • Computer Applications - Grade X by Pandey and Dey • Computer Applications - Grade X by Dheeraj Malhotra • Assignments and sample papers from the net • Website: http://www.icseguess.com, guideforschool.com
September	Chapter 5 – Functions (Onam Holidays)	Understand functions and its types, function declaration and ways of calling functions. Returning information/messages from the functions and use of multiple functions and more than one function with the same name (function overloading)		
October	Recap of chapters done in term 1. SA 1	Revision for SA1 (Chp 3,4,5,9)		

Session Two – NOVEMBER 2018 TO MARCH 2019

November	Grade 8 text book - Chapter 7 -	Understand Iteration construct using flowcharts and pseudocode.	<ul style="list-style-type: none"> • Programs on selection and Iteration construct 	<ul style="list-style-type: none"> • Computer Applications - Grade X by Pandey and Dey
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	Iteration construct Chapter 10 - Iteration through loops	Learn about iteration construct using Java, use of the construct, three different statements, syntax and semantics of for, while and do-while.	<ul style="list-style-type: none"> • Text book exercises • Exercises from the reference books • Practicals 	<ul style="list-style-type: none"> • Computer Applications - Grade X by Dheeraj Malhotra • Assignments and sample papers from the net • Website: http://www.icseguess.com, guideforschool.com
December	Chapter 10 - Iteration through loops (continued)	Nested loops, Jump statements - break and continue	<ul style="list-style-type: none"> • Programs on selection and Iteration construct • Text book exercises • Exercises from the reference books • Practicals 	<ul style="list-style-type: none"> • Computer Applications - Grade X by Pandey and Dey • Computer Applications - Grade X by Dheeraj Malhotra • Assignments and sample papers from the net • Website: http://www.icseguess.com, guideforschool.com
January	Chapter 10 - Iteration through loops (continued)	Using iteration construct to solve various patterns		
February	Arrays Revision	Understand how to work with Arrays Revise all the chapters for SA 2		
March	Revision SA2			

Facilitators' name: Miss Kavitha MS and Mrs Armin shroff

Textbook: Computer Applications (Grade X) by SumitaArora

Our Blog: computerapplication976.wordpress.com for updates on worksheets and sample papers.